

LOW POWER DISTRIBUTED TRANSMITTER

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ABSTRACT OF THE DISCLOSURE

A low power distributed transmitter includes a signal generator, signal partitioning module, signal processing module, a plurality of amplifiers, and a transmitting module. The signal generator is operably coupled to generate a signal to represent base-band data in accordance with a particular transmission protocol. The signal partitioning module is operably coupled to partition the signal into a plurality of signal partitions based on a peak-to-average ratio of the signal. The signal processing module processes the plurality of signal partitions to in accordance with the particular transmission protocol to produce processed signals. Each of the amplifiers amplifies a corresponding one of the processed signal partitions to produce amplified signal partitioned. The transmitting module transmits, via an antenna or a plurality of antennas, the amplified signal partitions as a composite amplified signal.